Abstract of the Disclosure

Provided is a progressive scan method used in a display using adaptive edge interpolation. According to the progressive scan method, a final edge direction that satisfies a first edge-determination condition and a second edge-determination condition is detected by performing interpolation for 7 x 3 pixel windows, using code determination and a comparison of a standard deviation based on differences between luminances of pixel data divided by an edge boundary. As a result, directional edge interpolation is carried out in a region of a low gradient below 45° and to 27° at the minimum, and simple intra-field linear interpolation can be performed in a high-frequency texture region. Subsequently, it is possible to remove high-frequency noise introduced in edge dependent interpolation or unnatural screen display due to zigzagged edges, thereby improving the quality of a display.

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